KRIST VESELI

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EDUCATION

Michigan State University **East Lansing, MI**

B.S. Computer Science

- **Relevant Courses:** Introduction to Python, Introduction to C++, Data Structures and Algorithms, Computer Organization and Architecture, Database Systems, Object-oriented Software Design, Introduction to AI

PROFESSIONAL EXPERIENCE

United Wholesale Mortgage **Pontiac, MI**

Software Developer Intern *May 2025 – August 2025*

- Migrated legacy CRON jobs into C# Azure Functions using timer triggers, improving reliability and eliminating manual scheduler maintenance and improving reliability by 70%
- Optimized user-segmentation process by crafting complex SQL queries to filter users against specific business criteria, boosting efficiency by 85%
- Automated new-user provisioning by authoring SQL scripts to grant database permissions, accelerating onboarding and reducing manual updates by 60%
- Maintained and updated outdated project dependencies and libraries, resolving compatibility issues and reducing security vulnerabilities across multiple app modules
- Developed unit and behavior tests with MSTest, NUnit, and Moq, using CodeRush to improve test coverage by up to 90% on features deployed to production
- Ensured code coverage by writing tests that hit actual repository code, validating data access and business logic layers.

PROJECTS

Draftlytics: AI-Powered Fantasy Football Draft Assistant | *Python*

- Designed and implemented an AI-powered tool to optimize fantasy football draft picks using Python, scikit-learn, and FastAPI
- Collected and cleaned player projection and ADP data from FantasyPros and other sources to train a regression model predicting fantasy value
- Built a custom recommendation engine leveraging Best Player Available (BPA) logic and Value Over Replacement (VOR)
- Deployed a RESTful API to serve draft pick recommendations in real-time based on user s team needs and league format (PPR/Standard)
- Engineered modular backend with reusable data pipelines, model training, and simulation components for extensibility across positions and formats

Car Infotainment-System | *Python*

- Developed a Python-based car infotainment system using PyQt5, featuring a real-time speedometer, fuel gauge, and an embedded YouTube player for media playback**.**
- Integrated custom UI components and utilized QWebEngineView for video/audio streaming.
- Implemented dynamic fuel consumption based on vehicle speed, enhancing realism in user interactions.

Social Network Friend Recommendation System | *Python*

Developed a recommendation system for a social network platform, allowing users to discover and connect with potential friends based on common connections and interests.

Implemented an efficient algorithm to identify the user with the highest number of common friends, excluding the user themselves, thus optimizing the friend suggestion process.

Combined Affine and Caesar Cipher Encryption Project | *Python*

- Designed and implemented a novel cryptographic technique that combines Affine Cipher and Caesar Cipher for encrypting and decrypting sentences, ensuring the privacy and security of sensitive information.
- Demonstrated proficiency in cryptography, algorithm design, and user interface development, contributing to the creation of a unique and practical security tool.

Battleship Replica | *Python*

- Developed a Battleship replica game using Python, showcasing strong programming skills and proficiency in object-oriented programming (OOP) principles.
- Demonstrated problem-solving abilities by implementing game logic for ship placement, player turns, and win conditions, enhancing the overall user experience.

TECHNICAL SKILLS & CERTIFICATIONS

Certifications: Microsoft Excel, Microsoft Word

Languages: Python, C++, C#, SQL, NoSQL

Tools: Microsoft Azure, React, Git

Other: Agile/Scrum, Debugging, Mutation Testing, Unit Testing, VS Code, Jira